NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE BOX BEAM SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE BOX BEAMS.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 21/2" Ø DOWEL HOLES AT FIXED ENDS, OF BOX BEAM SECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT. THE 21/2" Ø DOWEL HOLES AT EXPANSION ENDS OF SLAB SECTIONS SHALL BE FILLED WITH JOINT SEALER MATERIAL TO $1^{1}/2^{\prime\prime}$ ABOVE THE TOP OF DOWELS AND THEN FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2" Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN BOX BEAMS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING BOX BEAMS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE BOX BEAM UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 6000 PSI IN SPAN A AND 4000 PSI IN SPAN B.

ALL REINFORCING STEEL IN PARAPETS, END POSTS AND CONCRETE WEARING SURFACE SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE BOX BEAM UNIT

APPLY EPOXY PROTECTIVE COATING TO BOX BEAM UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

GROOVED CONTRACTION JOINTS, 1/2" IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE PARAPET IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINTS SHALL BE LOCATED AT A SPACING OF 8 FT. TO 10 FT. BETWEEN EXPANSION JOINTS. NO CONTRACTION JOINTS WILL BE REQUIRED FOR SEGMENTS LESS THAN 10 FEET IN LENGTH.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 2"AT END BENTS 1 AND 2.

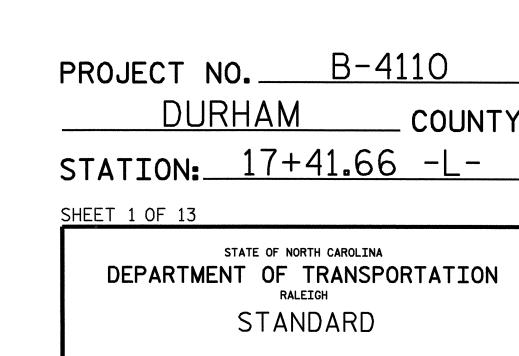
PLACEMENT OF THE CONCRETE WEARING SURFACE SHALL OCCUR AFTER CASTING THE CONCRETE RAIL. THE COST OF THE #4 BARS CAST WITH THE CONCRETE WEARING SURFACE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONCRETE WEARING SURFACE. FOR CONCRETE WEARING SURFACE. SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBER, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE BOX BEAMS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

THE LOCATION OF THE VOID DRAINS MAY BE SHIFTED SLIGHTLY WHERE NECESSARY TO CLEAR PRESTRESSING STRANDS OR TRANSVERSE REINFORCING

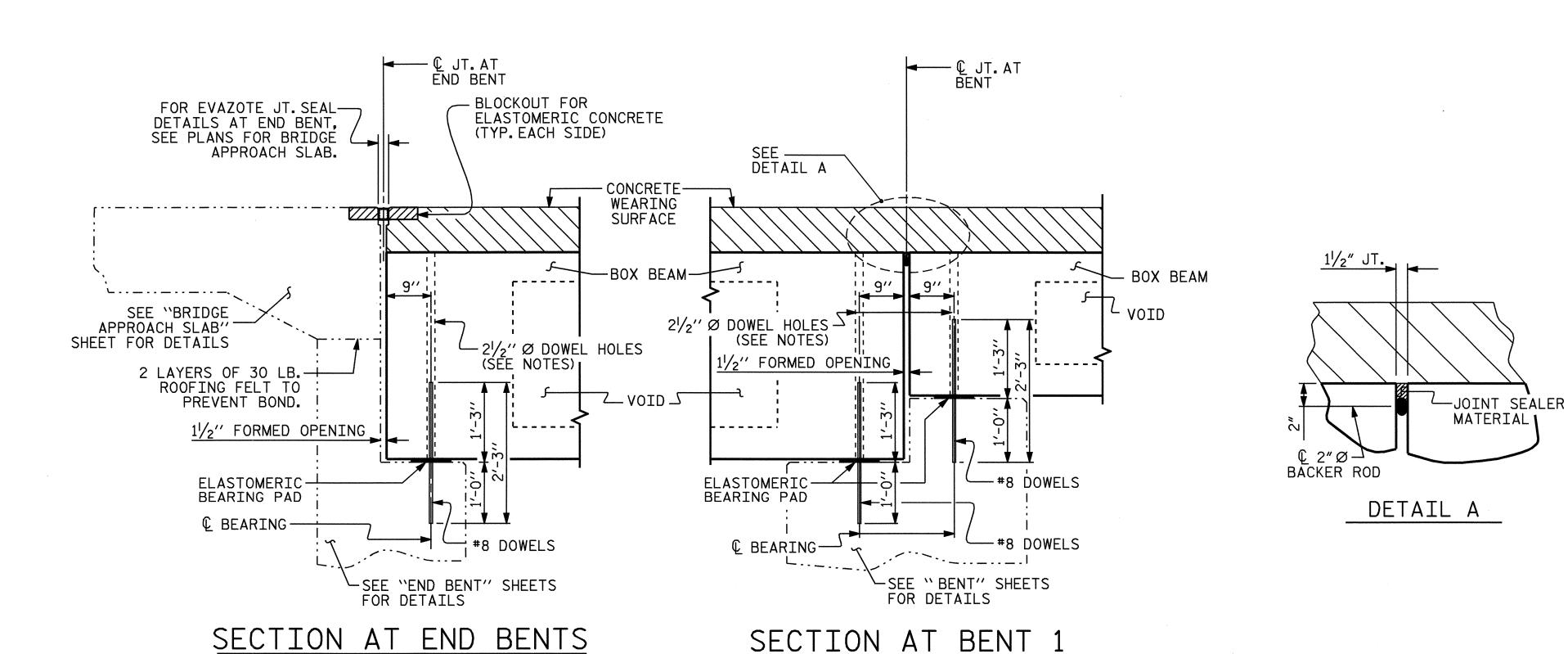


PRESTRESSED CONCRETE BOX BEAM UNIT 21545 **REVISIONS** NO. BY: BY: DATE:

39'-0" 1'-3" 36'-6"(CLEAR ROADWAY) 1'-3" 1'-2" 18'-3" 18'-3" PARAPET PARAPET O"OFFSET @ FILL FACE END BTS.1 & 2 2'-53/8" ARC OFFSET @ CT. OF BRIDGE LONG CHORD 2 BAR METAL RAIL-— 2 BAR METAL RAIL & WORKLINE GRADE PT. $9^{1/2}$ "@ & BRG.— 91/2"@ (L BRG. — CONCRETE WEARING — 91∕2″@ © BRG. SURFACE (SEE DETAIL, - CONST. SHEET 13 OF 13) CONST. **\----**/ **`---**. **\----***----***____** `____ `_____' 3'-0" © 0.6″Ø H.S. TRANVERSE SHEAR KEYS TO BE FILLED WITH GROUT AFTER (TYP.) POST-TENSIONING STRAND ALL ERECTION HAS BEEN COMPLETED AND AFTER IN 2"Ø HOLE. (TYP.) FINAL TENSIONING OF TRANSVERSE STRANDS 19'-6" 19'-6" 13 PRESTRESSED CONCRETE BOX BEAM UNITS = 39'-0"

> HALF SECTION AT INTERMEDIATE DIAPHRAGM HALF SECTION AT INTERMEDIATE DIAPHRAGM (SPAN A) (SPAN B)

TYPICAL SECTION



ASSEMBLED BY : SWANCEPE DATE: 08/05 CHECKED BY: M.A. ALLEN DATE: 11/05 DRAWN BY: TLA 5/05 ADDED 7/II/05R CHECKED BY: GM 6/05

24-JAN-2006 10:32 N:\Structures\swance\Microstation\b4110 Box Bm Supstr.dgn

DATE:

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